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1	IS&R	L1	1283	(382/190,209,305).CCLS	USPAT	2004/11/1 9 08:07			
2	BRS	L2	44049	(form\$1 or document\$1 or slip or bill\$1 or coupon\$1) same pattern\$1 same (template\$1 or predetermined or model\$1 or reference or prestored)	USPAT	2004/11/1 9 08:14			
3	BRS	L3	3680	2 same (collat\$3 or compar\$6)	USPAT	2004/11/1 9 08:11			
4	BRS	L4	1024	3 same (match\$3 or recogn\$6 or identif\$6)	USPAT	2004/11/1 9 08:09			
5	BRS	L5	72	4 same search\$3	USPAT	2004/11/1 9 08:10			
6	BRS	L7	0	1 and 6	USPAT	2004/11/1 9 08:10			
7	BRS	L6	15	5 same (mov\$3 or shift\$3)	USPAT	2004/11/1 9 08:10			
8	BRS	L8	188	2 same ((collat\$3 or compar\$6) near5 result\$1)	USPAT	2004/11/1 9 08:11			
9	BRS	L9	2	1 and 8	USPAT	2004/11/1 9 08:11			

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
10	BRS	L10	17777	(form\$1 or document\$1 or slip or bill\$1 or coupon\$1) same (pattern\$1 near5 (template\$1 or predetermined or model\$1 or reference or prestored))	USPAT	2004/11/1 9 08:14			
11	BRS	L11	18	10 same (search\$3 near5 image\$1)	USPAT	2004/11/1 9 08:15			
12	BRS	L12	2	1 and 11	USPAT	2004/11/1 9 08:18			
13	IS&R	L13	0	("search\$3with(mov\$3or shift\$3)with(collat\$3or rcompar\$6)".PN.	USPAT	2004/11/1 9 08:19			
14	BRS	L14	71	3 and (search\$3 near10 (shift\$3 or mov\$3))	USPAT	2004/11/1 9 08:34			
15	IS&R	L15	335	(382/181).CCLS.	USPAT	2004/11/1 9 08:34			
16	BRS	L16	1	1 and 14	USPAT	2004/11/1 9 08:35			
17	BRS	L17	2	14 and 15	USPAT	2004/11/1 9 08:41			
18	BRS	L18	3303	((pre-determined or predetermined or prestored) near3 pattern\$1) same (identif\$5 or recogn\$6)	USPAT	2004/11/1 9 08:43			
19	BRS	L19	547	18 same (area\$1 or region\$1)	USPAT	2004/11/1 9 08:43			

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
20	BRS	L20	160	19 same image\$1	USPAT	2004/11/1 9 08:44			
21	BRS	L21	21381	"0" same (search\$3 or find\$3)	USPAT	2004/11/1 9 08:44			
22	BRS	L22	14	20 same (search\$3 or find\$3)	USPAT	2004/11/1 9 08:46			
23	BRS	L23	2830	(search\$3 near10 (mov\$3 or step\$5 or shift\$3)) same image\$1	USPAT	2004/11/1 9 08:47			
24	BRS	L24	1154	23 same (search\$3 near3 (pattern\$1 or image\$1))	USPAT	2004/11/1 9 08:47			
25	BRS	L25	351	24 same (match\$3 or compar\$7 or collat\$3)	USPAT	2004/11/1 9 08:48			
26	BRS	L26	82	25 same ((predetermin\$3 or prestored or reference) near5 (pattern or image\$1))	USPAT	2004/11/1 9 08:49			
27	BRS	L27	17	1 and 26	USPAT	2004/11/1 9 09:14			
28	IS&R	L28	468	(382/305).CCLS.	USPAT	2004/11/1 9 09:14			
29	BRS	L29	393	shift\$3 with search\$3 with (pattern\$1 or image\$1)	USPAT	2004/11/1 9 09:35			
30	BRS	L30	2	28 and 29	USPAT	2004/11/1 9 09:16			
31	IS&R	L31	459	(382/209).CCLS.	USPAT	2004/11/1 9 09:17			

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
32	IS&R	L32	0	("29and31").PN.	USPAT	2004/11/1 9 09:17			
33	IS&R	L33	0	("29and31").PN.	USPAT	2004/11/1 9 09:17			
34	BRS	L34	10	29 and 31	USPAT	2004/11/1 9 09:23			
35	BRS	L35	3339	(pattern\$1 near3 (prestored or predetermined)) with (compar\$6 or collat\$3 or match\$3)	USPAT	2004/11/1 9 09:24			
36	BRS	L36	0	35 same ((extract\$3 or cut\$5) near10 (first or second) near10 (region\$1 or area\$1))	USPAT	2004/11/1 9 09:27			
37	BRS	L37	472	35 same (region\$1 or area\$1)	USPAT	2004/11/1 9 09:28			
38	BRS	L38	15	37 same search\$3	USPAT	2004/11/1 9 09:31			
39	BRS	L39	3	(stepping near1 through) and mariam	USPAT	2004/11/1 9 09:33			
40	BRS	L40	123	(compar\$6 near10 (predetermin\$3 near1 pattern\$1)) same (identif\$5 or recogn\$6)	USPAT	2004/11/1 9 09:34			
41	BRS	L41	264	target same pattern\$1 same search\$3 same (image or form\$1 or document\$1)	USPAT	2004/11/1 9 09:35			

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
42	BRS	L42	91	41 same (collat\$3 or compar\$6 or match\$3)	USPAT	2004/11/1 9 09:35			
43	BRS	L43	12	42 and ((shift\$3 or mov\$3) near10 search\$3)	USPAT	2004/11/1 9 09:38			
44	BRS	L44	889	(compar\$6 near3 result\$1) same ((identif\$5 or recogn\$6) near10 (image or pattern\$1 or document\$1 or form\$1))	USPAT	2004/11/1 9 09:40			
45	BRS	L45	47	44 same search\$3	USPAT	2004/11/1 9 09:40			
46	BRS	L46	12	45 same (area\$1 or region\$1 or section\$1)	USPAT	2004/11/1 9 09:41			
47	IS&R	L47	459	(382/209).CCLS.	USPAT	2004/11/1 9 09:49			
48	BRS	L48	33	(search near3 image) near5 shift\$3	USPAT	2004/11/1 9 09:49			
49	BRS	L49	10	48 same (match\$3 or compar\$6 or collat\$4)	USPAT	2004/11/1 9 10:02			
50	BRS	L50	980	((second or first or initial) near3 (compar\$6 or match\$3 or collat\$3)) same pattern\$1 same image\$1	USPAT	2004/11/1 9 10:04			
51	BRS	L51	152	50 same (identif\$5 or recogn\$6)	USPAT	2004/11/1 9 10:05			

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
52	BRS	L52	18	1 and 51	USPAT	2004/11/1 9 10:20			
53	BRS	L53	3	(search adj engine) and mariam	USPAT	2004/11/1 9 10:21			
54	BRS	L54	5	search\$3 and cognex and mariam	USPAT	2004/11/1 9 11:20			
55	BRS	L55	1	"6584224".pn.	USPAT	2004/11/1 9 11:20			
56	BRS	L56	122	(result\$1 near3 (compar\$6 or match\$3)) with (cut\$5 or extract\$4) with (area\$1 or region\$1)	USPAT	2004/11/1 9 12:01			
57	BRS	L57	59	56 same (reference or template or prestored or predetermined)	USPAT	2004/11/1 9 12:02			
58	BRS	L58	34	57 same image\$1	USPAT	2004/11/1 9 12:02			
59	BRS	L59	10	56 same (reference or template or prestored or predetermined) near5 pattern\$1	USPAT	2004/11/1 9 12:02			
60	BRS	L60	10	56 same ((reference or template or prestored or predetermined) near5 pattern\$1)	USPAT	2004/11/1 9 12:08			
61	BRS	L61	47	slip adj identif\$8	USPAT	2004/11/1 9 12:09			
62	BRS	L62	1	61 and nec	USPAT	2004/11/1 9 13:30			

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
63	BRS	L63	143	title same extract\$3 same retrieval\$3	USPAT	2004/11/1 9 13:30			
64	BRS	L64	3	63 and ruled adj lines	USPAT	2004/11/1 9 13:30			

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	IS&R	L1	2382	(382/137-140,159,165,202,209,218,305,306).CCLS.	USPAT	2004/11/2 2 11:36			
2	IS&R	L2	1115	(707/6).CCLS.	USPAT	2004/11/2 2 11:36			
3	IS&R	L3	372	(715/506,517).CCLS.	USPAT	2004/11/2 2 11:36			
4	BRS	L4	356978	(form\$1 or document\$1 or slip\$1 or book\$1) same (match\$3 or compar\$6 or collat\$3)	USPAT	2004/11/2 2 11:40			
5	BRS	L5	22118	4 same image\$1	USPAT	2004/11/2 2 11:37			
6	BRS	L6	8715	5 same (pattern\$1 or characteristic\$1 or symbol\$1 or indici\$2 or character\$1 or line\$1)	USPAT	2004/11/2 2 11:38			
7	BRS	L7	945	5 same ((prestor\$3 or stored or predetermined\$2 or prestor\$3 or predetermined\$2) near\$5 (pattern\$1 or characteristic\$1 or symbol\$1 or indici\$2 or character\$1 or line\$1))	USPAT	2004/11/2 2 11:39			
8	BRS	L9	84	7 same (result\$4 near\$5 (match\$3 or compar\$6 or collat\$3))	USPAT	2004/11/2 2 11:41			

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
9	BRS	L10	12	1 and 9	USPAT	2004/11/2 2 11:41			

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L19 same (recogn\$6 or identif\$7)	18

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<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
<u>L1</u>	pattern near3 identif\$7	13003	<u>L1</u>
<u>L2</u>	L1 same ((compar\$6 or match\$3 or collat\$3) near5 pattern near10 image)	211	<u>L2</u>
<u>L3</u>	L2 same ((predtermin\$3 or prestored or stored or reference or template or standard) near3 pattern)	81	<u>L3</u>
<u>L4</u>	L3 same (area or region or section)	30	<u>L4</u>
<u>L5</u>	L4 same search\$3	4	<u>L5</u>
<u>L6</u>	(search\$3 near1 (image or area or window)) same (pattern or image) same (match\$3 or compar\$6 or collat\$3)	1106	<u>L6</u>
<u>L7</u>	L6 same (recursiv\$3 or iterativ\$5 or repetitiv\$3 or repeat\$5)	118	<u>L7</u>
<u>L8</u>	L7 same (identif\$7 or recogn\$6)	28	<u>L8</u>
<u>L9</u>	(second near3 (match\$3 or compar\$6 or collat\$3)) same pattern	3654	<u>L9</u>
<u>L10</u>	I9 same ((first or initial) near3 (match\$3 or compar\$6 or collat\$3))	1743	<u>L10</u>
<u>L11</u>	L10 same (identif\$9 or recogn\$6)	262	<u>L11</u>

<u>L12</u>	L11 same image	41	<u>L12</u>
<u>L13</u>	L12 same search\$3	5	<u>L13</u>
<u>L14</u>	predetermined pattern same (identif\$7 or recogn\$6)	1486	<u>L14</u>
<u>L15</u>	L14 same ((match\$3 or compar\$6 or collat\$3) near3 result)	15	<u>L15</u>
<u>L16</u>	(search\$3 near3 (area or region)) same (match\$3 or compar\$6 or collat\$3)	2082	<u>L16</u>
<u>L17</u>	L16 same pattern	544	<u>L17</u>
<u>L18</u>	L17 same (target or template or predetermined or prestored or known)	97	<u>L18</u>
<u>L19</u>	L18 same image	59	<u>L19</u>
<u>L20</u>	L19 same (recogn\$6 or identif\$7)	18	<u>L20</u>

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	DB=USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ		
<u>L1</u>	search\$3 same (pattern or document) same image same (collat\$3 or compar\$6 or match\$3) same (mov\$3 or shift\$3)	188	<u>L1</u>
<u>L2</u>	L1 same ((predetermin\$3 or pre-determined or predefined or template or model or reference) near4 (shift\$3 or mov\$3))	35	<u>L2</u>
<u>L3</u>	L2 same (identif\$5 or recogn\$6)	7	<u>L3</u>
<u>L4</u>	amount same search\$3 same shift\$3	749	<u>L4</u>
<u>L5</u>	L4 and mariam	3	<u>L5</u>
<u>L6</u>	search\$3 with (image or pattern) with (collat\$3 or compar\$6) with (shift\$3 or mov\$3)	170	<u>L6</u>
<u>L7</u>	L6 same (template or predetermined or prestored or reference or template or model)	77	<u>L7</u>
<u>L8</u>	L7 same (recogn\$6 or identif\$7)	6	<u>L8</u>
<u>L9</u>	(predetermined near1 pattern) same search\$3 same (shift\$3 or mov\$3)	34	<u>L9</u>

<u>L10</u>	L9 same (compar\$6 or collat\$3 or match\$3)	11	<u>L10</u>
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	(area or region) same ((pattern or document or form or slip or bill) near5		
<u>L11</u>	(recogn\$6 or identif\$6)) same ((template or prestored or predefined or	997	<u>L11</u>
	predetermined or model or reference) near4 (pattern or document or form or		
	slip or bill))		
<u>L12</u>	L11 same (collat\$3 or compar\$6 or match\$3)	296	<u>L12</u>
<u>L13</u>	L12 same ((collat\$3 or compar\$6 or match\$3) near3 (result or multiple or	29	<u>L13</u>
	plural\$5 or second))		
<u>L14</u>	L13 and ((shift\$3 or mov\$3) near10 serch\$3)	0	<u>L14</u>
<u>L15</u>	5696838.pn.	1	<u>L15</u>

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(pattern* <near/9> (identif* or recogn*)) <paragraph> (((

Search☐ Check to search within this result set**Results Key:****JNL** = Journal or Magazine **CNF** = Conference **STD** = Standard**1 On the algorithmic implementation of stochastic discrimination***Kleinberg, E.M.;*
 Pattern Analysis and Machine Intelligence, IEEE Transactions on , Volume:
 22 , Issue: 5 , May 2000
 Pages:473 - 490
[\[Abstract\]](#)[\[PDF Full-Text \(612 KB\)\]](#)**IEEE JNL****2 Fast computation of the discrete Walsh and Hadamard transforms***Sundararajan, D.; Ahmad, M.O.;*
 Image Processing, IEEE Transactions on , Volume: 7 , Issue: 6 , June 1998
 Pages:898 - 904
[\[Abstract\]](#)[\[PDF Full-Text \(256 KB\)\]](#)**IEEE JNL****3 Wavelet transform and artificial intelligence based condition monitoring for GIS***Lin, T.; Aggarwal, R.K.; Kim, C.H.;*
 Transmission and Distribution Conference and Exposition, 2003 IEEE PES , Vo
 1 , 7-12 Sept. 2003
 Pages:191 - 195 Vol.1
[\[Abstract\]](#)[\[PDF Full-Text \(631 KB\)\]](#)**IEEE CNF****4 Decoding population codes***Wilson, R.C.; Ludtke, N.;*
 Pattern Recognition, 2000. Proceedings. 15th International Conference
 on , Volume: 2 , 3-7 Sept 2000
 Pages:137 - 140 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(304 KB\)\]](#) [IEEE CNF](#)

5 **MRF solutions for probabilistic optical flow formulations**

Roy, S.; Govindu, V.;

Pattern Recognition, 2000. Proceedings. 15th International Conference on , Volume: 3 , 3-7 Sept. 2000

Pages:1041 - 1047 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(784 KB\)\]](#) [IEEE CNF](#)

6 **Improved degraded document recognition with hybrid modeling techniques and character n-grams**

Brakensiek, A.; Willett, D.; Rigoll, G.;

Pattern Recognition, 2000. Proceedings. 15th International Conference on , Volume: 4 , 3-7 Sept. 2000

Pages:438 - 441 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(352 KB\)\]](#) [IEEE CNF](#)

7 **Function approximator design using genetic algorithms**

Ahmed, M.A.; DeJong, K.A.;

Evolutionary Computation, 1997., IEEE International Conference on , 13-16 A 1997

Pages:519 - 524

[\[Abstract\]](#) [\[PDF Full-Text \(476 KB\)\]](#) [IEEE CNF](#)

8 **Callback implementations in C++**

Jakubik, P.;

Technology of Object-Oriented Languages and Systems, 1997. TOOLS 23. Proceedings , 28 July-1 Aug. 1997

Pages:377 - 405

[\[Abstract\]](#) [\[PDF Full-Text \(592 KB\)\]](#) [IEEE CNF](#)

9 **A systematic approach to classifier selection on combining multiple classifiers for handwritten digit recognition**

Jongryeol Kim; Kukhwan Seo; Kyusik Chung;

Document Analysis and Recognition, 1997., Proceedings of the Fourth International Conference on , Volume: 2 , 18-20 Aug. 1997

Pages:459 - 462 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(412 KB\)\]](#) [IEEE CNF](#)

10 **A data reduction method for efficient document skew estimation based on Hough transformation**

Younki Min; Sung-Bae Cho; Yillbyung Lee;

Pattern Recognition, 1996., Proceedings of the 13th International Conference on , Volume: 3 , 25-29 Aug. 1996

Pages:732 - 736 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(376 KB\)\]](#) [IEEE CNF](#)

Kise, K.; Yanagida, O.; Takamatsu, S.;

Pattern Recognition, 1996., Proceedings of the 13th International Conference on , Volume: 3 , 25-29 Aug. 1996
Pages:788 - 792 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(476 KB\)\]](#) **IEEE CNF**

Yue Lu; Chew Lim Tan;

Pattern Recognition, 2002. Proceedings. 16th International Conference
on , Volume: 3 , 11-15 Aug. 2002
Pages:57 - 60 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(313 KB\)\]](#) **IEEE CNF**

Cesarini, F.; Marinai, S.; Sarti, L.; Soda, G.;

Pattern Recognition, 2002. Proceedings. 16th International Conference on , Volume: 3 , 11-15 Aug. 2002
Pages:236 - 240 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(373 KB\)\]](#) [IEEE CNE](#)

Lejtman, D.Z.; George, S.E.;

Document Analysis and Recognition, 2001. Proceedings. Sixth International Conference on , 10-13 Sept. 2001
Pages:992 - 996

[\[Abstract\]](#) [\[PDF Full-Text \(344 KB\)\]](#) **IEEE CNF**

Waked, B.; Ching Y Suen; Bergler, S.;

Document Analysis and Recognition, 2001. Proceedings. Sixth International Conference on , 10-13 Sept. 2001
Pages:194 - 199

[\[Abstract\]](#) [\[PDF Full-Text \(488 KB\)\]](#) **IEEE CNF**

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